SEQUENCE LISTING

<110> Crofts, Linda Anne
     Hancock, Manuela S.
     Morrison, Nigel A.
     Eisman, John A.

<120> Isoforms of the Human Vitamin D Receptor

<130> RICE-014

<140> 09/509,482
<141> 2000-09-15

<150> PCT/AU98/00817
<151> 1998-09-29

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tttccatgaa gggagccctt gcatttttca catctccttc cttacaatgt ccatggaaca       360
tgcggcgctc acagccacag gagcaggagg gtcttggcga agcatgaagc ggaaggcact       420
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ggcctgccgg ctcaaacgct gtgtggacat cggcatgatg aaggagttca ttctgacaga       540
tgaggaagtg cagaggaagc gggagatgat cctgaagcgg aaggaggagg aggccttgaa       600
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<211> 167
<212> DNA
<213> Homo sapiens

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<210> 7
<211> 1574
<212> DNA
<213> Homo sapiens

<400> 7
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cacccgcagc ccaatccatc actcagcaac tcctagacgc tggtagaaag ttcctccgag    180
gagcctgcca tccagtcgtg cgtgcagaag cctttgggtc tgaagtgtct gtgagacctc    240
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tggcggccag cacttccctg cctgaccctg gagactttga ccggaacgtg ccccggatct    360
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3

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atctggatct gagtgaagaa gattcagatg acccttctgt gaccctagag ctgtcccagc      960
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<212> DNA
<213> Homo sapiens

<400> 8
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<210> 9
<211> 477
<212> PRT
<213> Homo sapiens

<400> 9
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Arg Thr Ala Gly Val Glu Glu Ala Phe Gly Ser Glu Val Ser Val Arg
            20                  25                  30
Pro His Arg Arg Ala Pro Leu Gly Ser Thr Tyr Leu Pro Pro Ala Pro
        35                  40                  45
Ser Gly Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly
    50                  55                  60
Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly Val Cys Gly Asp Arg
65                  70                  75                  80
Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys Glu Gly Cys Lys Gly
                85                  90                  95
Phe Phe Arg Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe
            100                 105                 110
Asn Gly Asp Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala
        115                 120                 125
Cys Arg Leu Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile
    130                 135                 140
Leu Thr Asp Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg
145                 150                 155                 160
Lys Glu Glu Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu
                165                 170                 175
Glu Gln Gln Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr
            180                 185                 190
Tyr Asp Pro Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg
            195                 200                 205
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4

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Val Asn Asp Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His
    210             215             220
Thr Pro Ser Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys
225             230             235             240
Ile Thr Ser Ser Asp Met Met Asp Ser Ser Ser Phe Ser Asn Leu Asp
            245             250             255
Leu Ser Glu Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser
        260             265             270
Gln Leu Ser Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile
        275             280             285
Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu
        290             295             300
Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val
305             310             315             320
Ile Met Leu Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Ser Trp
            325             330             335
Thr Cys Gly Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys
            340             345             350
Ala Gly His Ser Leu Glu Leu Ile Glu Pro Leu Ile Lys Phe Gln Val
            355             360             365
Gly Leu Lys Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met
        370             375             380
Ala Ile Cys Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala
385             390             395             400
Leu Ile Glu Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr
            405             410             415
Ile Arg Cys Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys
            420             425             430
Met Ile Gln Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser
            435             440             445
Lys Gln Tyr Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu
        450             455             460
Thr Pro Leu Val Leu Glu Val Phe Gly Asn Glu Ile Ser
465             470             475

<210> 10
<211> 450
<212> PRT
<213> Homo sapiens

<400> 10
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Arg Thr Ala Gly Val Glu Gly Met Glu Ala Met Ala Ala Ser Thr Ser
            20              25              30
Leu Pro Asp Pro Gly Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly
        35              40              45
Val Cys Gly Asp Arg Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys
    50              55              60
Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Met Lys Arg Lys Ala Leu
65              70              75              80
Phe Thr Cys Pro Phe Asn Gly Asp Cys Arg Ile Thr Lys Asp Asn Arg
            85              90              95
Arg His Cys Gln Ala Cys Arg Leu Lys Arg Cys Val Asp Ile Gly Met
            100             105             110
Met Lys Glu Phe Ile Leu Thr Asp Glu Glu Val Gln Arg Lys Arg Glu
        115             120             125
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5

```
Met Ile Leu Lys Arg Lys Glu Glu Glu Ala Leu Lys Asp Ser Leu Arg
    130                 135                 140
Pro Lys Leu Ser Glu Glu Gln Gln Arg Ile Ile Ala Ile Leu Leu Asp
145                 150                 155                 160
Ala His His Lys Thr Tyr Asp Pro Thr Tyr Ser Asp Phe Cys Gln Phe
            165                 170                 175
Arg Pro Pro Val Arg Val Asn Asp Gly Gly Gly Ser His Pro Ser Arg
            180                 185                 190
Pro Asn Ser Arg His Thr Pro Ser Phe Ser Gly Asp Ser Ser Ser Ser
            195                 200                 205
Cys Ser Asp His Cys Ile Thr Ser Ser Asp Met Met Asp Ser Ser Ser
            210                 215                 220
Phe Ser Asn Leu Asp Leu Ser Glu Glu Asp Ser Asp Asp Pro Ser Val
225                 230                 235                 240
Thr Leu Glu Leu Ser Gln Leu Ser Met Leu Pro His Leu Ala Asp Leu
            245                 250                 255
Val Ser Tyr Ser Ile Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro
            260                 265                 270
Gly Phe Arg Asp Leu Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser
            275                 280                 285
Ser Ala Ile Glu Val Ile Met Leu Arg Ser Asn Glu Ser Phe Thr Met
            290                 295                 300
Asp Asp Met Ser Trp Thr Cys Gly Asn Gln Asp Tyr Lys Tyr Arg Val
305                 310                 315                 320
Ser Asp Val Thr Lys Ala Gly His Ser Leu Glu Leu Ile Glu Pro Leu
            325                 330                 335
Ile Lys Phe Gln Val Gly Leu Lys Lys Leu Asn Leu His Glu Glu Glu
            340                 345                 350
His Val Leu Leu Met Ala Ile Cys Ile Val Ser Pro Asp Arg Pro Gly
            355                 360                 365
Val Gln Asp Ala Ala Leu Ile Glu Ala Ile Gln Asp Arg Leu Ser Asn
    370                 375                 380
Thr Leu Gln Thr Tyr Ile Arg Cys Arg His Pro Pro Pro Gly Ser His
385                 390                 395                 400
Leu Leu Tyr Ala Lys Met Ile Gln Lys Leu Ala Asp Leu Arg Ser Leu
            405                 410                 415
Asn Glu Glu His Ser Lys Gln Tyr Arg Cys Leu Ser Phe Gln Pro Glu
            420                 425                 430
Cys Ser Met Lys Leu Thr Pro Leu Val Leu Glu Val Phe Gly Asn Glu
            435                 440                 445
Ile Ser
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<210> 11
<211> 72
<212> PRT
<213> Homo sapiens

<400> 11
Met Glu Trp Arg Asn Lys Lys Arg Ser Asp Trp Leu Ser Met Val Leu
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Arg Thr Ala Gly Val Glu Gly Met Glu Ala Met Ala Ala Ser Thr Ser
            20                 25                 30
Leu Pro Asp Pro Gly Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly
            35                 40                 45
Val Cys Gly Asp Arg Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys
    50                 55                 60
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6

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Glu Gly Cys Lys Gly Phe Phe Arg
65                  70


<210> 12
<211> 427
<212> PRT
<213> Homo sapiens

<400> 12
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            20                  25                  30
Gly Phe His Phe Asn Ala Met Thr Cys Glu Gly Cys Lys Gly Phe Phe
            35                  40                  45
Arg Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe Asn Gly
    50                  55                  60
Asp Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala Cys Arg
65                  70                  75                  80
Leu Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile Leu Thr
            85                  90                  95
Asp Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg Lys Glu
            100                 105                 110
Glu Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu Glu Gln
            115                 120                 125
Gln Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr Tyr Asp
    130                 135                 140
Pro Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg Val Asn
145                 150                 155                 160
Asp Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His Thr Pro
            165                 170                 175
Ser Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys Ile Thr
            180                 185                 190
Ser Ser Asp Met Met Asp Ser Ser Ser Phe Ser Asn Leu Asp Leu Ser
            195                 200                 205
Glu Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser Gln Leu
    210                 215                 220
Ser Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile Gln Lys
225                 230                 235                 240
Val Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu Thr Ser
            245                 250                 255
Glu Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val Ile Met
            260                 265                 270
Leu Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Ser Trp Thr Cys
    275                 280                 285
Gly Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys Ala Gly
    290                 295                 300
His Ser Leu Glu Leu Ile Glu Pro Leu Ile Lys Phe Gln Val Gly Leu
305                 310                 315                 320
Lys Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met Ala Ile
            325                 330                 335
Cys Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala Leu Ile
            340                 345                 350
Glu Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr Ile Arg
            355                 360                 365
Cys Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys Met Ile
    370                 375                 380
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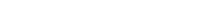
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Gln Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser Lys Gln
385                 390                 395                 400
Tyr Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu Thr Pro
                405                 410                 415
Leu Val Leu Glu Val Phe Gly Asn Glu Ile Ser
                420                 425


<210> 13
<211> 142
<212> DNA
<213> Homo sapiens


<400> 13
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ctcctctttg gggtaagtac ag                                                142


<210> 14
<211> 26
<212> PRT
<213> Homo sapiens


<400> 14
Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly Asp Phe
 1               5                  10                  15
Asp Arg Asn Val Pro Arg Ile Asp Asx Asp
            20                  25


<210> 15
<211> 76
<212> PRT
<213> Homo sapiens


<400> 15
Met Glu Trp Arg Asn Lys Lys Arg Ser Asp Trp Leu Ser Met Val Leu
 1               5                  10                  15
Arg Thr Ala Gly Val Glu Glu Ala Phe Gly Ser Glu Val Ser Val Arg
            20                  25                  30
Pro His Arg Arg Ala Pro Leu Gly Ser Thr Tyr Leu Pro Pro Ala Pro
            35                  40                  45
Ser Gly Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly
        50                  55                  60
Asp Phe Asp Arg Asn Val Pro Arg Ile Asp Asx Asp
65                  70                  75


<210> 16
<211> 49
<212> PRT
<213> Homo sapiens


<400> 16
Met Glu Trp Arg Asn Lys Lys Arg Ser Asp Trp Leu Ser Met Val Leu
 1               5                  10                  15
Arg Thr Ala Gly Val Glu Gly Met Glu Ala Met Ala Ala Ser Thr Ser
            20                  25                  30
Leu Pro Asp Pro Gly Asp Phe Asp Arg Asn Val Pro Arg Ile Asp Asx
            35                  40                  45
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Asp

<210> 17
<211> 1463
<212> DNA
<213> Homo sapiens

<400> 17
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<212> DNA
<213> Homo sapiens

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9

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<212> DNA
<213> Homo sapiens


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10

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